

TENNESSEE CAREER AND TECHNICAL EDUCATION TEXTBOOK SCREENING INSTRUMENT, STRUCTURAL SYSTEMS PROGRAM OF STUDY ARCHITECTURE & CONSTRUCTION CAREER CLUSTER

BEFORE YOU BEGIN

ALIGNMENT TO THE TENNESSEE CAREER AND TECHNICAL EDUCATION STANDARDS:

Tennessee's Career and Technical Education Standards (hereafter, "the standards") represent a significant shift in the definition of student proficiency within career and technical education environments. Evaluators of materials should understand that the standards replace the proficiency frameworks of years past in three major respects:

- 1) A shift to clear, specific, and measurable expectations for student learning. The standards articulate deep knowledge and skill attainment, departing from the competency-based structure of years past.
- 2) Increased focus on rigor in literacy and mathematics within technical contexts. The new standards align to all Tennessee State Standards for English Language Arts and Literacy in Technical Subjects and, where appropriate, select Tennessee State Standards in Mathematics.
- 3) Sequential progression of knowledge and skills within and across courses. The new standards build on each other both within course content and across course levels, arranged within programs of study that culminate in capstone and/or work-based learning experiences for students.

Evaluators of materials must be well versed in the standards for the course(s) aligned to the materials in question, how the content fits into the progressions in the content standards, and the expectations of the standards with respect to conceptual understanding, fluency, and technical application. Aligned courses in the Architecture & Construction Career Cluster:

FUNDAMENTALS OF CONSTRUCTION (6073)

STRUCTURAL SYSTEMS I (6164)

STRUCTURAL SYSTEMS II (6165)

CONSTRUCTION PRACTICUM (6160)

** Indicates courses available for elective credit*

STATEMENT OF STUDENT PROFICIENCY

The Structural Systems program of study prepares students with the knowledge and skills related to residential and commercial carpentry. Upon completion of the program of study, proficient students will be able to frame floors, walls, ceilings, roofs, and stairs and be able to install interior and exterior finishing (including roofing, siding, thermal and moisture protection components, drywall, doors, and trim). Students will implement safe working practices, interpret construction drawings, and demonstrate proper measurement and application of mathematical concepts to complete projects.

Note to reviewers: *All materials reviewed as part of this application must align to the statement of student proficiency provided above.*

ORGANIZATION OF THIS DOCUMENT

SECTION I: NON-NEGOTIABLE ALIGNMENT CRITERIA

All submissions must meet all of the non-negotiable criteria for each course before passing on to Section II.

SECTION II: ADDITIONAL ALIGNMENT CRITERIA AND INDICATORS OF QUALITY

Section II includes additional criteria for alignment to the standards as well as indicators of quality.

SECTION III: FOCUS AREA (*optional*)

Section III allows reviewers to capture qualitative observations on an additional area of focus, if presented in the materials.

SECTION I(1):**FOCUS:****Students and teachers using the materials as designed devote the majority of time in each level to the course standards.*****METRICS:**

A. In any single course level, materials are designed where there is 80%** alignment to the course standards (see Appendix A, 12).	Yes __X__	No ____
B. All materials are appropriate for the designated course level, both in terms of content and in terms of language. For materials spanning multiple course levels and/or grade bands, content is presented at the appropriate grain size (i.e., level of detail) commensurate to expectations in the standard.	Yes __X__	No ____
C. Materials focus equally on the <i>conceptual knowledge</i> as well as the <i>technical skill</i> outlined in the standards.	Yes __X__	No ____
D. Topics do not deviate from the content outlined in the course standards. Topics may go “above and beyond” stated learning expectations, but not in a manner that distracts from the focus on specific knowledge and skills as determined by the standards.	Yes __X__	No ____

To be aligned to the Tennessee Standards, materials for each level must attend to all four indicators of Focus. All four indicators must be marked Yes.

Meet?
 Yes __X__ No ____

Justification/Notes

*For the purposes of this document, Tennessee CTE students are considered to be enrolled in course “levels” (i.e., Level 1, Level 2, Level 3, and Level 4) due to variation in the *grade* level at which students may take a course. For example, a tenth-grade student may be enrolled in a Level 1 course. For this reason, reviewers are asked to evaluate materials on the basis of their alignment to particular *course levels*, not *grade levels* or *grade bands*.

**This percentage is a guide. Reviewers should not attempt to compute percentages based on counting pages or counting lessons. Reviewers will use their professional judgment to determine how students are meant to spend their time to determine focus and provide evidence for their decision.

SECTION I(2):**RIGOR:**

Each level's instructional materials reflect high expectations for all students. They follow faithfully the level of rigor intended in the standards and support student learning through high-quality presentation of content and challenging application.

METRICS:

A. Materials effectively meet the level of rigor intended in the standards.	Yes ___X___	No _____
B. High-quality problems and questions designed to invite exploration and support conceptual understanding are included throughout. A variety of problems, both conceptual and technical, enable students to connect course content and transfer understandings to new situations.	Yes ___X___	No _____
C. All materials reinforce literacy and mathematics instruction in career and technical education environments. Texts are of an appropriately challenging Lexile level; mathematics problems push students to apply quantitative reasoning to specific technical situations.	Yes _X_____	No _____
D. Materials support the development of fluency, including regular opportunities to practice knowledge and skills, appropriately apply tools, and use technology.	Yes ___X___	No _____
E. Domain-specific vocabulary and industry terminology are frequently used to explain topics, or to make connections to key workplace activities.	Yes ___X___	No _____
To be aligned to the standards, all five indicators of Rigor must be marked Yes.	Meet? Yes ___X___ No _____	

Justification/Notes

SECTION I(3):

POSTSECONDARY AND CAREER READINESS:

Materials promote multiple pathways to student success beyond high school, highlighting a range of career opportunities aligned with entry and exit points to and from appropriate postsecondary programs. Aligned pathways are presented in a fair and balanced fashion that underscores the need for advanced training beyond high school, but does not privilege one set of credentials over another and is consistent with occupational requirements.

METRICS:

A. Technical skills are promoted within the context of applicable industries and work environments. They are <i>not</i> presented in isolation or without meaningful connections to aligned careers.	Yes __X__	No ____
B. Materials showcase a diversity of career and postsecondary opportunities for students upon completion of high school, including all applicable levels of postsecondary training (i.e., technical schools, community colleges, four-year universities, etc.).	Yes __X__	No ____
C. Connections to relevant certifications and other credentials are clearly explained, and their value in industry is communicated where appropriate.	Yes __X__	No ____
D. Materials provide opportunities for students to practice and reflect upon 21st century (or “soft”) skills.	Yes __X__	No ____

To be aligned to the standards, all four indicators of Postsecondary and Career Readiness must be marked Yes.	Meet? Yes __X__ No ____
Justification/Notes 	

Were all three non-negotiables in section I met? (Was each component marked "yes"?)	Yes __X__ No ____
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